INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2004/007201

	PCT/JP2004/007201
A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ H01L29/872	
According to International Patent Classification (IPC) or to both national	l classification and IPC
B. FIELDS SEARCHED	
Minimum documentation searched (classification system followed by classification system followed by classifi	assification symbols) B82B1/00-3/00, H01L51/00-40,
	roku Jitsuyo Shinan Koho 1994-2004 tsuyo Shinan Toroku Koho 1996-2004
INSPEC	
C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where applications of the constant of	propriate, of the relevant passages Relevant to claim No.
Y JP 6-29556 A (Zaidan Hojin Konkyusho), 04 February, 1994 (04.02.94), Full text; Figs. 1 to 3 (Family: none)	awamura Rikagaku 1-80
<pre>Y JP 6-29514 A (Zaidan Hojin Konkyusho), 04 February, 1994 (04.02.94), Full text; Figs. 1 to 6 (Family: none)</pre>	
<pre>Y JP 2003-258164 A (Fuji Xerox 12 September, 2003 (12.09.03) Full text; Figs. 1 to 8 (Family: none)</pre>	
Further documents are listed in the continuation of Box C.	See patent family annex.
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family
Date of the actual completion of the international search 24 August, 2004 (24.08.04)	Date of mailing of the international search report 07 September, 2004 (07.09.04)
Name and mailing address of the ISA/ Japanese Patent Office	Authorized officer
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Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	Toshishige YAMADA, Modeling of kink-shaped carbon-nanotube Schottky diode with gate bias modulation, Applied Physics Letters, Vol.80, No.21, 27 May, 2002 (27.05.02). pages 4027 to 4029	1-80
Y	JP 2002-346996 A (Fuji Xerox Co., Ltd.), 04 December, 2002 (04.12.02), Full text; Figs. 1 to 17 & US 2002/0172639 A1	2-3,17-29, 35,37,45-72
Y	JP 58-98333 A (Japan Synthetic Rubber Co., Ltd.), 11 June, 1983 (11.06.83), Full text; Figs. 1 to 2 (Family: none)	14-16,42-44
Y	JP 59-32166 A (Nippon Telegraph And Telephone Corp.), 21 February, 1984 (21.02.84), Full text; Figs. 1 to 6 (Family: none)	27-29
Y	<pre>JP 2002-141633 A (Lucent Technologies Inc.), 17 May, 2002 (17.05.02), Full text; Figs. 1 to 6 & US 6340822 B1</pre>	27-29
Y .	JP 2003-309265 A (Konica Minolta Holdings Kabushiki Kaisha), 31 October, 2003 (31.10.03), Full text; Figs. 1 to 4 (Family: none)	31
Y	WO 2002/063693 Al (Hitachi, Ltd.), 15 August, 2002 (15.08.02), Full text; Figs. 1 to 15 & AU 1232247 Al	73-80
А	<pre>JP 2002-76324 A (Fuji Xerox Co., Ltd.), 15 March, 2002 (15.03.02), Full text; Figs. 1 to 6 & US 2002/0024099 A1</pre>	1-80
A	Marcus Freitag et al., Controlled creation of a carbon nanotube diode by a scanned gate, Applied Physics Letters, Vol.79, No.20, 12 November, 2001 (12.11.01), pages 3326 to 3328	1-80

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